MANTA

Technical Data Sheet

Version: 1.0

Manta HP-2K

High-Performance Two-Component Waterproofing Coating

Description

Formulated with proprietary polymer technology, Manta HP-2K is a high-performance, two-component waterproofing system designed to combine high elongation with high tensile strength. HP-2K overcomes a drawback of polyurethane systems: the sensitivity of their isocyanate component to moisture. It can be applied to damp substrates and is suitable for both positive- and negative-side waterproofing, providing high weatherability and durable, long-term substrate protection.

Features

- Moisture-Tolerant Application: Can be reliably applied directly onto damp substrates.
- Flexibility & Adhesion: Strong adhesion and elongation of up to 700%.
- Superior Mechanical Strength: Delivers robust tensile strength up to 3.4 MPa.
- User-Friendly & Fast-Track Installation: Liquid-applied, ambient-curing system that ensures ease of handling and significantly reduces project downtime.
- High-Solids Impermeability: Formulated with high solid content to create a highly effective, continuous watertight barrier.
- Outstanding Weatherability: Provides enduring resistance against UV degradation and severe weathering conditions.

Typical Technical Data

Manta Code:	HP-2K
System Type:	Two-part (A/B) reactive waterproofing system
Solid Content:	Part A: Approx. 80.5% | Part B: Approx. 56.1%.
Mixing Ratio:	A:B = 4:1 (by weight).
Tack-Free Time:	< 4 hours (at 25°C).
Through-Cure Time:	< 24 hours.
Viscosity Adjustment:	Viscosity can be tailored using DBE to meet specific application requirements.

Applications

Designed for universal compatibility, this system exhibits excellent adhesion to diverse substrates including concrete, metals, PVC, existing coatings, and bituminous membranes. It is highly recommended for critical waterproofing applications such as:

- Flat roofing systems and terraces
- Basements and foundations
- Wet rooms (kitchens and bathrooms)
- Interior negative-side waterproofing (retaining walls and cellars)
- Tunneling infrastructure

Surface Preparation & Application Guidelines

- Substrate Preparation: The substrate must be structurally sound, clean, and entirely free of dust, grease, oil, and other contaminants.
- Mechanical Cleaning: Mechanically remove any friable parts, laitance, or loose particles using a wire brush, scraper, or suitable abrasive method.
- Pot Life Consideration: Due to the system's rapid curing kinetics, Part A and Part B must be thoroughly mixed and applied immediately within its workable pot life.

Packaging

Component A: 20kg pail; Component B: 5 kg pail.

Safety and Storage

Keep in a cool and dry place and storage temperature is 8–35 °C. Shelf life is 12 months.

Contact Information

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